

Amendments to the Claims

1. (Cancel)
2. (Previously presented) A polymer electrolyte, comprising: a vinylidene fluoride copolymer and a nonaqueous electrolytic solution, wherein the vinylidene fluoride copolymer comprises 80 to 97 wt. % of vinylidene fluoride monomer units and 3 to 20 wt. % of units of at least one monomer copolymerizable with vinylidene fluoride monomer and has an inherent viscosity of 1.5 to 10 dl/g, and wherein said at least one monomer copolymerizable with vinylidene fluoride comprises a mixture of hexafluoropropylene monomer and trifluorochloroethylene monomer.
3. (Currently amended) A polymer electrolyte according to Claim ~~1~~ 2, wherein the vinylidene fluoride copolymer has been obtained by introducing the monomers simultaneously all at once into a polymerization vessel and then polymerizing the monomers.
4. (Currently amended) A polymer according to Claim ~~1~~ 2, wherein said vinylidene fluoride copolymer has an abnormal linkage content of at least 3% at vinylidene fluoride sites.
5. (Currently amended) A polymer electrolyte according to Claim ~~1~~ 2, which contains 50 - 85 wt. % of the nonaqueous electrolytic solution.
6. (Currently amended) A polymer electrolyte according to Claim ~~1~~ 2, wherein the vinylidene fluoride copolymer forming the polymer electrolyte is crosslinked.
7. (Previously presented) A polymer electrolyte according to Claim 6, wherein the vinylidene fluoride copolymer is crosslinked in the presence of (1) a crosslinking agent selected from the group consisting of polyamines, polyols and polymerizable crosslinking agents having an unsaturated bond, and (2) a radical generating agent.

8. (Previously presented) A polymer electrolyte according to Claim 6, wherein the vinylidene fluoride copolymer is crosslinked by irradiation with electron rays or gamma rays.

9. (Currently amended) A nonaqueous battery, comprising: a positive electrode comprising a positive electrode material capable of being doped with and liberating lithium, a negative electrode comprising either metallic lithium or a negative electrode material similarly capable of being doped with and liberating lithium, and a polymer electrolyte according to any of Claims ~~1-8~~ 2-8 between the positive electrode and the negative electrode.

10. (Currently amended) A polymer electrolyte according to Claim ~~1~~ 2, formed from a mixture of the vinylidene fluoride copolymer, the nonaqueous electrolytic solution and a solvent that can be evaporated, by evaporating the solvent from the mixture.

11. (Currently amended) A polymer electrolyte according to Claim ~~1~~ 2, wherein the vinylidene fluoride copolymer has an inherent viscosity of ~~1-8~~ 1.7 to 7 dl/g.